



CTC1 mouse mAb

Catalog No	YP-mAb-19449
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB
Gene Name	CTC1 C17orf68
Immunogen	Synthesized peptide derived from human CTC1. AA range:663-733
Specificity	This antibody detects endogenous levels of CTC1 at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal,Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-15°C to -25°C/1 year(Do not lower than -25°C)
Synonyms	CTC1 C17orf68;CST complex subunit CTC1 (Conserved telomere maintenance component 1) (HBV DNAPTP1-transactivated protein B)
Observed Band	
Calculated Molecular Weight	134kD
Cell Pathway	Nucleus . Chromosome , telomere . A transmembrane region is predicted by sequence analysis tools (ESKW , MEMSAT and Phobius) ; however , given the telomeric localization of the protein , the relevance of the transmembrane region is unsure in vivo. .
Tissue Specificity	
Function	Component of the CST complex proposed to act as a specialized replication factor promoting DNA replication under conditions of replication stress or natural replication barriers such as the telomere duplex. The CST complex binds single-stranded DNA with high affinity in a sequence-independent manner , while isolated subunits bind DNA with low affinity by themselves. Initially the CST complex has been proposed to protect telomeres from DNA degradation . However , the CST complex has been shown to be involved in several aspects of telomere replication. The CST complex inhibits telomerase and is involved in telomere length homeostasis; it is proposed to bind to newly telomerase-synthesized 3' overhangs and to terminate telomerase action implicating the association with the ACD:POT1 complex thus interfering with its telomerase stimulation activity. The CST complex is also proposed to be involved



in fill-in synthesis of the telomeric C-strand probably implicating recruitment and activation of DNA polymerase alpha . The CST complex facilitates recovery from many forms of exogenous DNA damage; seems to be involved in the re-initiation of DNA replication at repaired forks and/or dormant origins . Involved in telomere maintenance . Involved in genome stability . May be involved in telomeric C-strand fill-in during late S/G2 phase (By similarity) .

Background

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images